

FHWA REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD.			

**SIGNALS**

1,2,5,6 3,4,7 8,10,12 9,11 13,14 15-22

12" 12" 12" 12" 12" 12"

23 24 25,26,34,35 27,36 28 29,43

PREPARE TO STOP WHEN FLASHING 60" x 144"

W11-8 36" x 36"

TEMPORARY SIGN W 3-3 New 48" x 48"

Ward Rd NEXT SIGNAL D3-2 Sign 32" x Various

DO NOT BLOCK ENTRANCE R 10-7b 24" x 30"

FIRE HOUSE SIGNAL W11-8b 36" x 72"

30,42 31,32,39,45 33,40 37,38 41 44 47 46

R3-2 24" x 24" R11-5 24" x 30"

ONLY R 3-5(L) 30" x 36"

Ward Rd D3-2 Sign 16" x Various

POST LINE MUST BE PAID FOR AT SIGNAL R 3-7a(R) 30" x 42"

R 3-5(R) 30" x 36"

R 3-8 30" x 30"

TEMPORARY SIGN W 3-3 New 36" x 36"

R 3-6(L) 30" x 36"

**NEMA PHASING For Intersection**

REVISION A

Pre-emption Operation

Flashing Operation

1. Phases associated by a dashed line will operate concurrently.  
2. Phases associated by a solid line will not operate concurrently.

**PRE-EMPTION PHASING At Firehouse Signal**

REVISION A

NORMAL OPERATION FIRE PRE-EMPTION FLASHING OPERATION

**PRE-EMPTION OPERATION**

REVISION A

**PROPOSED OPTICOM EYE**

A

**NOTE:**

Signal Heads 1-12 and signs 25-28,31-41,44-47 are proposed and are to be installed as shown.

Signal Heads 13-22 and signs 23,24,29,42,43 are existing and are to remain.

Sign 30 is existing and is to be relocated.

**NOTE:**

The pole base in this median may need to be adjusted for the grade.

A handbox is to be located approx. 180' from the intersection.

"Right Turn" arrow and "ONLY" pavement markings are to be located approx. 250', 450' and 650' from the intersection. R3-7(R) signs (No.:37,38) are to be located approx. 250' and 650' from the intersection.

- NOTES**
- "D.O." indicates delay output loop detector.
  - Geometrics shall be confirmed prior to the installation of signal equipment.
  - Loop detectors and conduit shall be installed prior to the installation of pavement markings.
  - Pavement markings detailed are proposed and are to be installed by the contractor in accordance with S.H.A. standards. All other pavement markings will be installed as part of the Developer's project.
  - The traffic signal contractor shall coordinate the installation of all traffic signal equipment with the general roadway contractor.

**GEOMETRIC LEGEND**

PROPOSED GEOMETRICS

EXISTING GEOMETRICS

**UTILITY LEGEND**

G GAS MAIN

W WATER MAIN

S SEWER MAIN

E ELECTRIC CABLES

D STORM DRAIN

A AERIAL CABLES

T TELEPHONE CABLES

A "Left Turn" arrow, "ONLY", and combination "Left/Straight" arrow pavement markings and a R3-8 sign (No.:44) are to be located approx. 150' from the intersection.

**REVISIONS**

**APPROVALS**

CHIEF, SIGNAL DESIGN SECTION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DEPUTY CHIEF ENGINEER, OFFICE OF TRAFFIC

**MDOT - STATE HIGHWAY ADMINISTRATION**

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION LOG MILE # 04000433.23

**MD 4 and WARD ROAD**

COUNTY: CALVERT

DRAWN BY: J.J.Dirndorfer

DES. BY: J.J.Dirndorfer

CHK. BY: J.J.Dirndorfer

DATE: March 12, 1992

SCALE: 1" = 20'

F.A.P. NO. N/A

S.H.A. NO. BW-467-802-512

TS/STD. NO. 3171A

SHEET NO. OF

**The Traffic Group**

The Traffic Group, Inc.

State 600

40 W. Chesapeake Avenue

Towson, Maryland 21204

410-583-8405

Fax 410-321-8458

**NOTE: THE SIGNAL SHOP INSTALLED A OPTICOM DETECTOR FOR N/B WARD ROAD. THE OLD FIREHOUSE EXIT SIGNAL WILL BE REMOVED BY THE DEVELOPER AT A LATER DATE.**

Dunkirk Volunteer Fire Department

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